

Portable Bedhead Hoist



Portable Electric Hoist
User Instructions

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I. INTRODUCTION

Thank you for purchasing a Sidhil Portable Electric Bedhead Hoist. The user manual should be read carefully before operating the hoist in order to ensure safe operation and maintenance. Please ensure that all instructions are fully understood and should any questions arise concerning the operation or maintenance of the hoist please contact your provider.

I.1 Features

- Portable electric bedhead hoist
- Designed for everyday indoor use as an aid to transfer a person from bed to chair, wheelchair, commode or other similar item
- Increased maximum patient user weight of up to 24 Stone (152kg)
- Breaks down into easily manageable sections
- Bespoke transport stand to aid storage and transportation
- Fitted with an electric actuator powered by a domestic mains power supply
- Integral manual lowering device
- Protected by BioCote® surface paint ensuring the product remains fully protected against the spread of harmful bacteria

I.2 Warnings and Cautions



Warnings in this user manual highlight potential hazards that if disregarded could lead to injury or death.

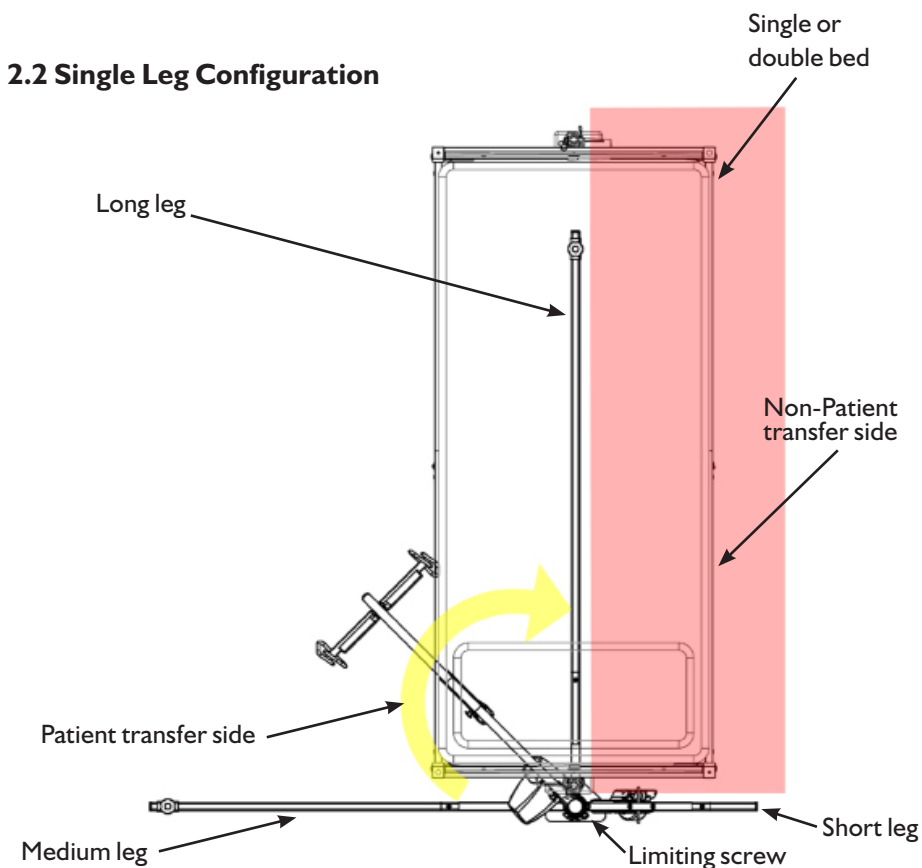
Cautions in this user manual highlight potential hazards that if disregarded could lead to equipment damage or failure.

2. USE

2.1 Typical Use

Your Sidhil Portable Bedhead Hoist is intended for use within a patient home or care home environment. It has been designed to provide a safe and easy method of transferring a patient from bed to chair, wheelchair, commode or any other such item. The adaptable hoist offers a product where a conventional ceiling track hoist cannot be fitted.

2.2 Single Leg Configuration



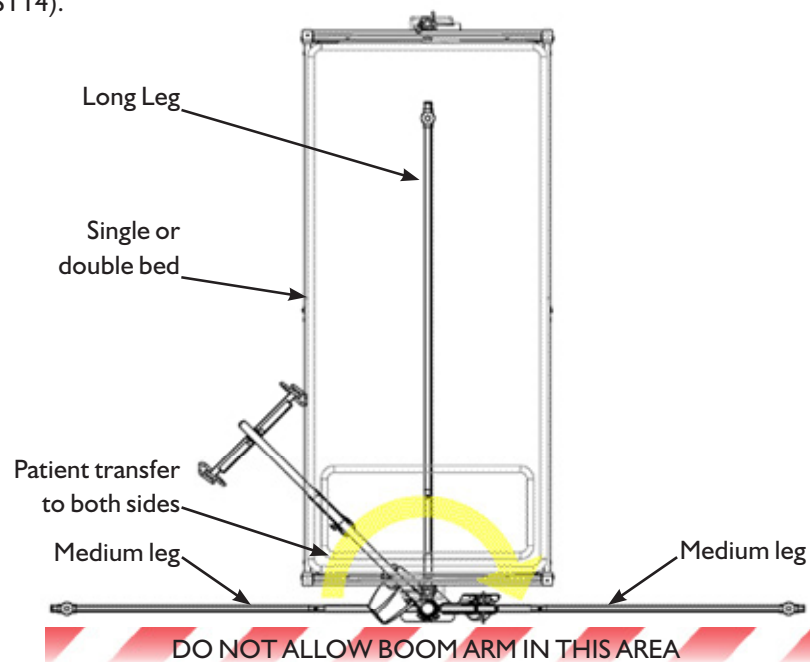
Warning

The hoist must always be limited to the patient transfer side. Ensure the limiting screw is located to the opposite side of the patient transfer side. This prevents the arm from swinging onto the non-patient side making the hoist unstable.

2. USE

2.3 Double Leg Configuration

An additional leg is required for this configuration and is supplied as an accessory (HST14).



Warning

Ensure the limiting screw is removed to allow the boom to move in a 170° motion.

Do not permit the hoist arm to be operated beyond the area indicated as shown above.

2.4 Risk Assessment

Prior to patient/carer use of the hoist a comprehensive risk assessment must be performed on a patient by patient basis. A risk assessment should include, but is not limited to;

- The weight of the patient - not exceeding 24 Stone (152kg)
- Falling out of the bed/sling during patient transfer
- Small children (and adults)
- Point of transfer (deploying a single or double leg configuration)
- Unauthorised persons

2. USE

2.5 Safe Working Load (S.W.L)

The safe working load of the hoist is 24 Stone (152kg).

2.6 General Warning

Warning

Misused electrical equipment can be hazardous.

Accessories that have not been approved or designed for use with the hoist must not be used.

The hoist should always be limited to a patient transfer side unless two medium (HST13/307) legs are deployed.

The hoist should always be positioned away from direct heat i.e. away from radiators, fan heaters or any other external heat source. Particular attention should be made to ensure the electrical control box is not positioned close to a heat source.



2.7 Regulatory Requirements

Regulations (LOLER '98) require that carers are trained in accordance with this directive in order to operate the hoist. This user guide complements this training; it is not a substitute and is offered for guidance only. Should training be required please contact your equipment supplier or provider.

LOLER '98 states that all lifting equipment is thoroughly examined at six monthly intervals and all examination records are retained for inspection.

3. SYMBOL DEFINITION

The following symbols are found on this hoist:



Warning



Refer to user guide



Maximum user weight & safe working load



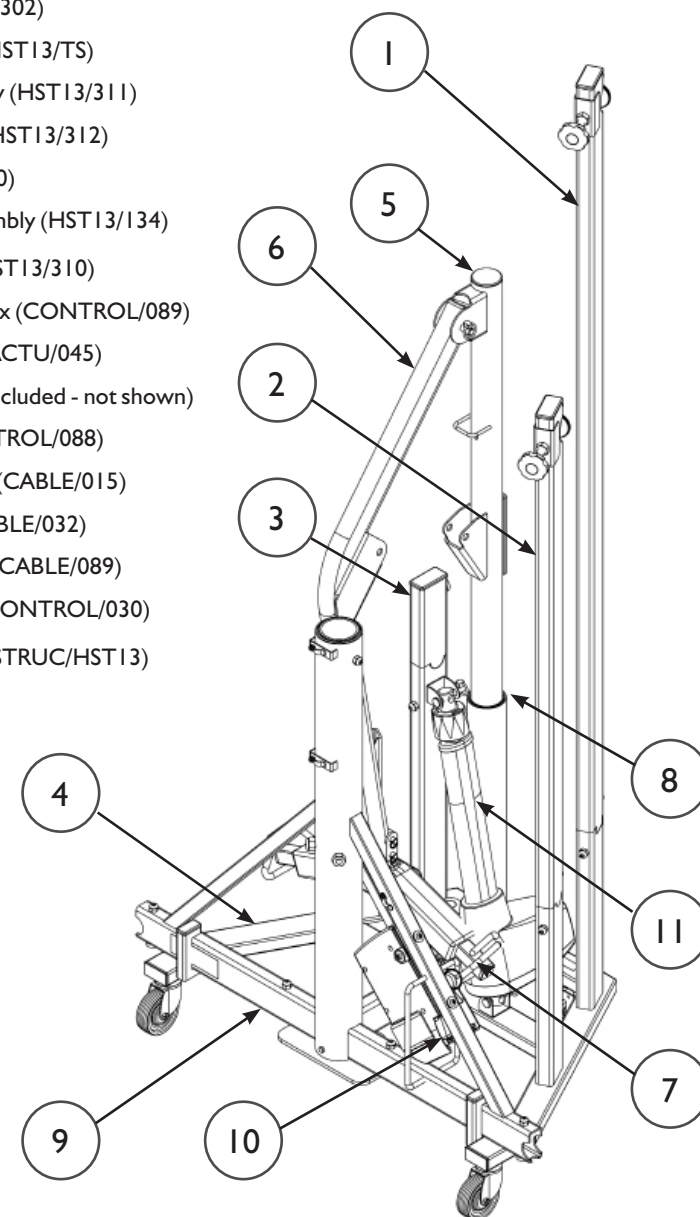
Place of manufacture



W.E.E.E Label
(Do not discard in general waste, follow local recycling policy)

4. PARTS IDENTIFICATION

1. Long Leg (HST13/301)
2. Medium Leg (HST13/307)
3. Short Leg (HST13/302)
4. Transport Stand (HST13/TS)
5. Top Tube Assembly (HST13/311)
6. Boom Assembly (HST13/312)
7. Spreader Bar (7000)
8. Middle Tube Assembly (HST13/134)
9. Base Assembly (HST13/310)
10. CB6S Control Box (CONTROL/089)
11. LA44 Actuator (ACTU/045)
12. Electrical Pack (included - not shown)
 - Handset (CONTROL/088)
 - Actuator Cable (CABLE/015)
 - Mains Lead (CABLE/032)
 - Cable Retainer (CABLE/089)
 - Blanking Plug (CONTROL/030)
 - User Guide (INSTRUC/HST13)



5. HOIST ASSEMBLY AND PREPARING FOR USE

Caution

Before attempting to assemble the hoist please ensure these instructions have been read and clearly understood.

It is advisable to assemble the hoist with a second able bodied person.

Prior to assembly ensure all items are provided as indicated in Section 4 – 'Parts Identification'.

Clear the area of any obstructions and ensure the surface is level.

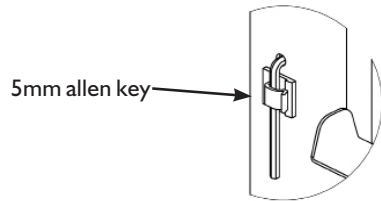
Ensure the castor brakes are applied prior to removing items from the transport stand.

Take care when disassembling each part from the transport stand, as each part/component is of considerable weight.



5.1 Hoist Assembly

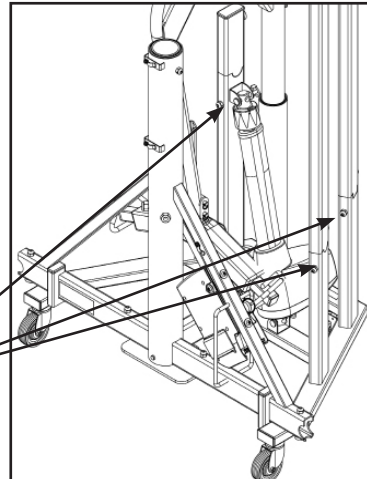
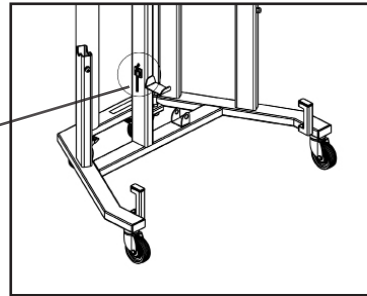
- A 5mm allen key is provided on the transport stand to aid assembly.



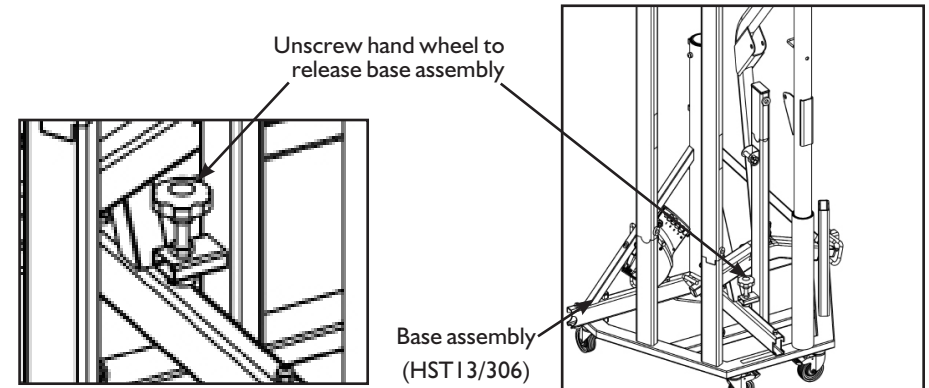
- Using the 5mm allen key loosen all fastenings to enable removal of parts from the transport stand.

- Loosen the hand wheel on the transport stand that holds the base assembly in place and then lift this off the stand and carefully place flat on the floor.

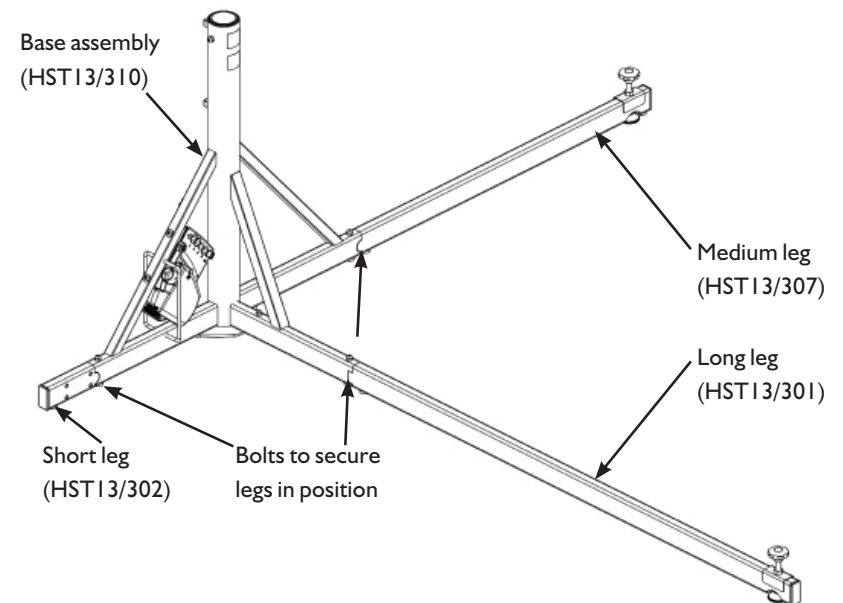
Loosen fixings to remove legs



5. HOIST ASSEMBLY AND PREPARING FOR USE

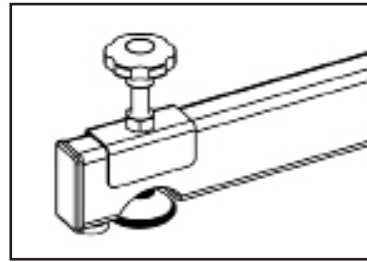


- Position the base assembly at the head end of the bed, ensuring the floor area is clear of obstacles and the surface is level.
- Offer the three stabilising legs (1 x short, 1 x medium & 1 x long leg) to the base assembly. Ensure the longest leg is positioned to fit underneath the bed. Ensure the medium length leg is inserted into the base assembly on the patient transfer side. Insert the shortest leg to the opposite side. Secure all legs with the 5mm allen key.
- When fitting a HST13 (accessory medium leg) in place of the short leg, leave the short leg on the transport stand.



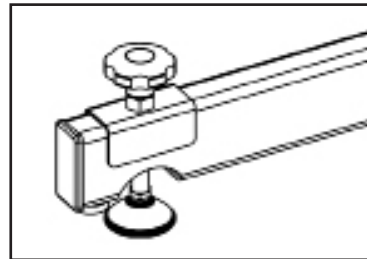
5. HOIST ASSEMBLY AND PREPARING FOR USE

- The levelling foot can be adjusted to suit varying and uneven floor surfaces. Ensure the assembled hoist base and legs are completely stable on the floor surface by adjusting the levelling foot as necessary.



Levelling foot in fully lowered position

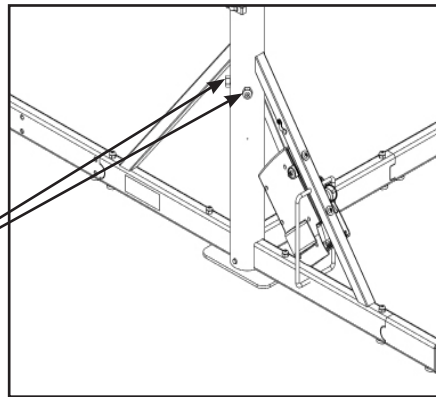
- Ensure the limiting screw is loosened sufficiently to insert the top assembly (including boom & spreader bar) into the base assembly. Locate and position within the central column.



Levelling foot in raised position

- Ensure the limiting screw in the correct position to limit movement of the boom to the patient side of the bed only. Ensure the transport stand that holds the base assembly is in place and then lift this off the stand and carefully place flat on the floor.

Limiting screw positions



Warning

- Ensure the boom is supported when fitting the top assembly, to prevent clashing with the central column and causing damage.
- Ensure the limiting screw is positioned correctly to limit the arm movement to the patient transfer side of the bed only.**

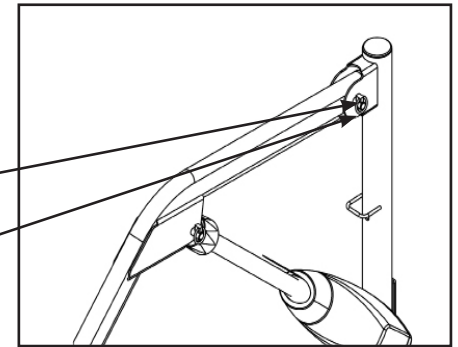


5. HOIST ASSEMBLY AND PREPARING FOR USE

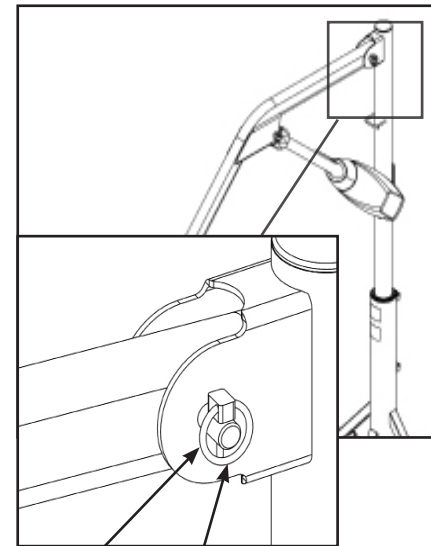
- Ensure the boom is fully secure within the top assembly and the lynch pin is fully engaged into the clevis pin, to proceed in fitting the actuator.

Lynch Pin
(PIN/001)

Clevis Pin
(CP/003)

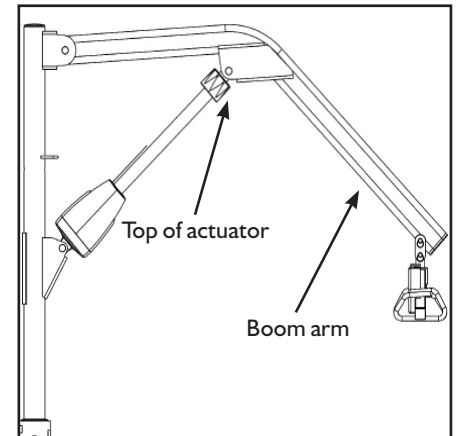


- Ensure the top of the actuator is fitted and secured to the boom arm first with the clevis and lynch pins. The base of the actuator is subsequently offered to the hoist upright and secured.



Clevis Pin
(CP/003)

Lynch Pin
(PIN/001)



Caution

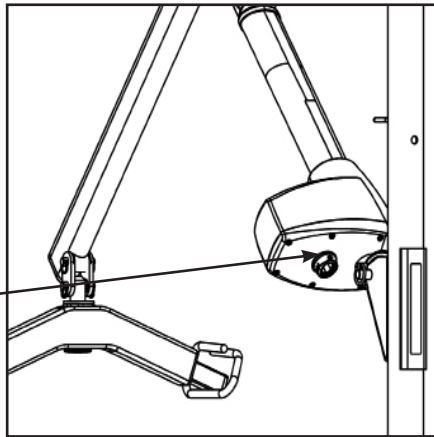
Do not hang the actuator from the bottom pivot.
Do not allow the actuator to swing from the top pivot.
Ensure the actuator is supported at all times whilst being assembled.
Ensure the body of the actuator is positioned in the correct orientation to prevent collision with a wall.



5. HOIST ASSEMBLY AND PREPARING FOR USE

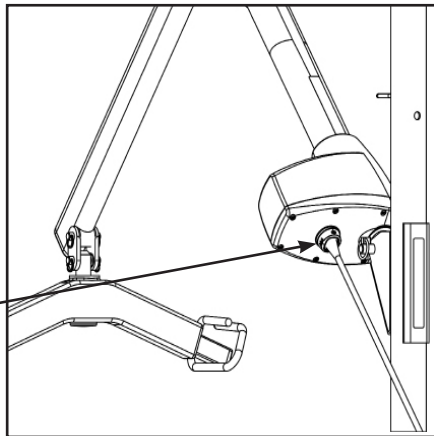
- Locate the locking ring on the underside of the actuator and turn into the unlocked position.

Locking ring



- Position and secure the cable into the socket. Holding the locking ring, turn clockwise to fully lock at 90°.

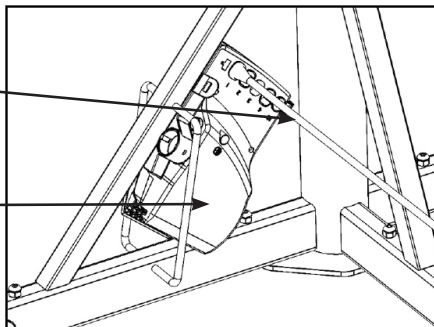
Actuator cable inserted



- Plug the opposite end of the cable into Port 1 on the control box.

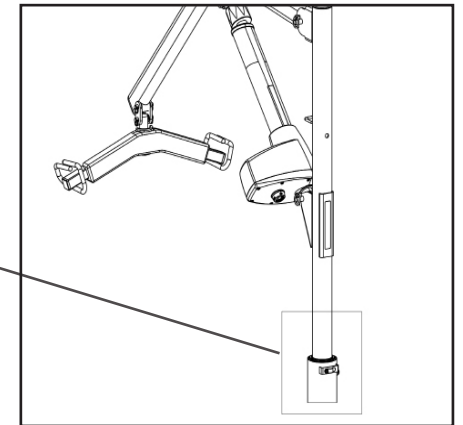
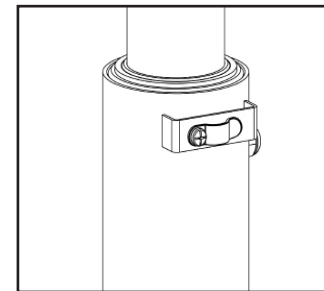
Actuator cable

Control box



5. HOIST ASSEMBLY AND PREPARING FOR USE

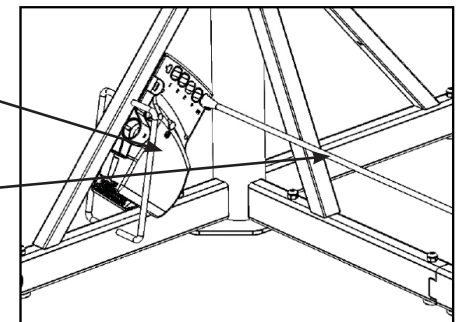
- Route the control box cable to the actuator securing the wire into the clips provided.



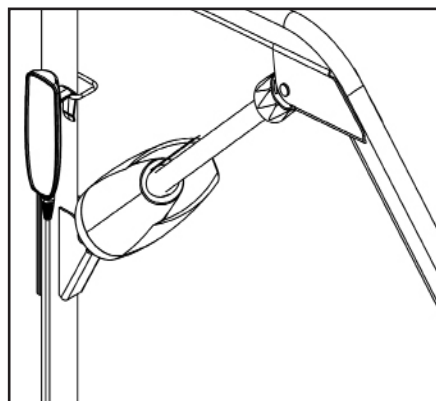
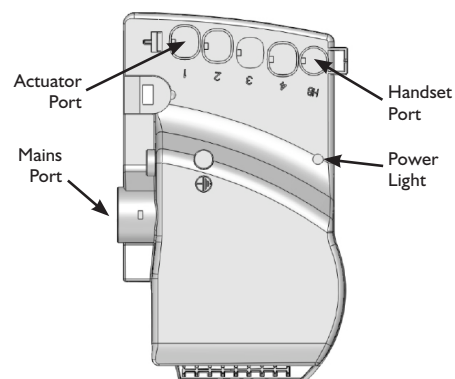
- Plug the handset cable into Port 5 on the control box socket.

Control box

Handset cable



5. HOIST ASSEMBLY AND PREPARING FOR USE



- Clip the cable retainer into the control box in the orientation shown to prevent the cables loosening. To attach the retainer ensure to feed the plug cables through the relevant slot and push the retainer around the plug. Clip the retainer into the control box to secure.

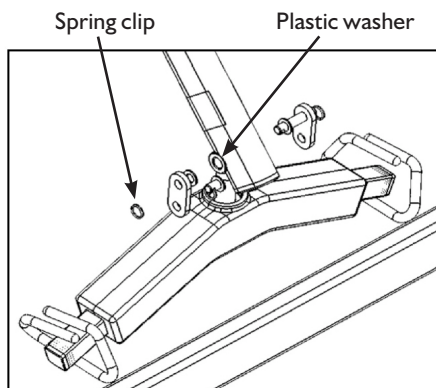
Cable retainer



- Attach the mains cable to the control box, by lining up the 2 pin male connector with the 2 pin female port on the control box. Ensure to engage the red retention clip. Plug the three pin plug to a domestic power supply.

- The spreader bar is pre-assembled to the boom. However, should the spreader bar be removed, attach the bar to the end of the boom arm using the pin, washers and spring clips.

Ensure a washer is positioned at each side of the boom arm and the spring clips are fully located.



- The hoist is now ready to use.

6. HOIST DISASSEMBLY AND PREPARING FOR STORAGE

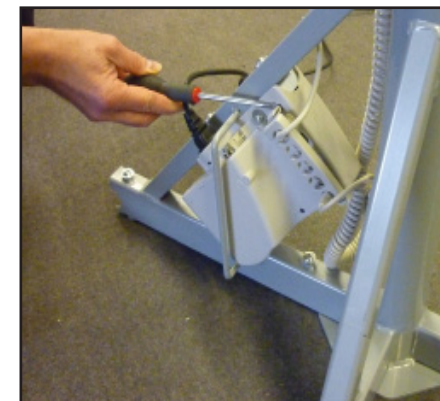


Caution

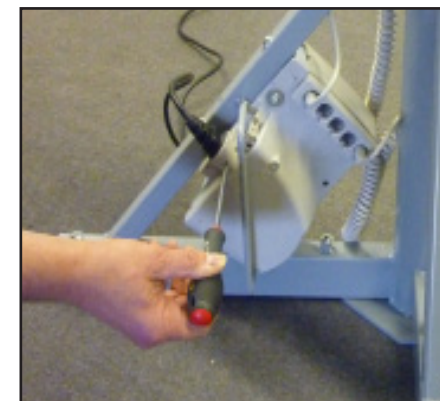
Ensure all cables are disconnected from the power supply and control box prior to dismantling the hoist.

6.1 Hoist Disassembly

- Remove the cable retainer from the control box by un-clipping with a flat bladed screw driver.

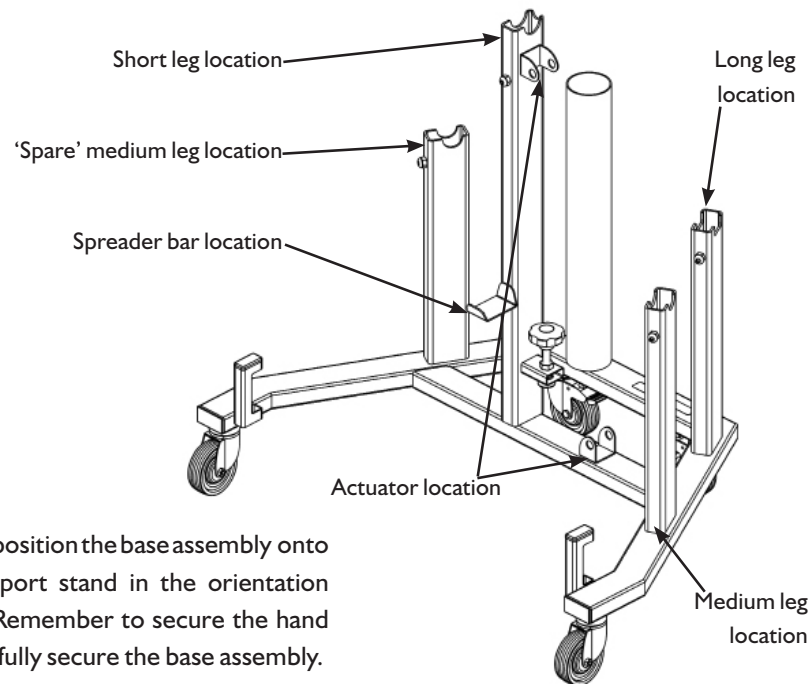


- Remove the mains cable by placing a flat bladed screw driver into the power port slot to dislodge the tabs on the red locking ring. Once dislodged, the mains cable can be released.

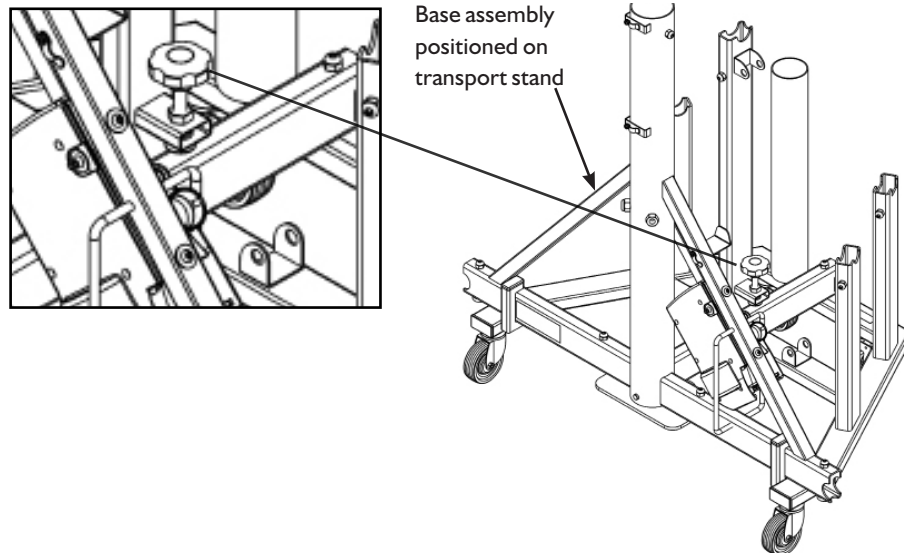


- Separate the hoist into its individual parts to locate on the transport stand.

6. HOIST DISASSEMBLY AND PREPARING FOR STORAGE

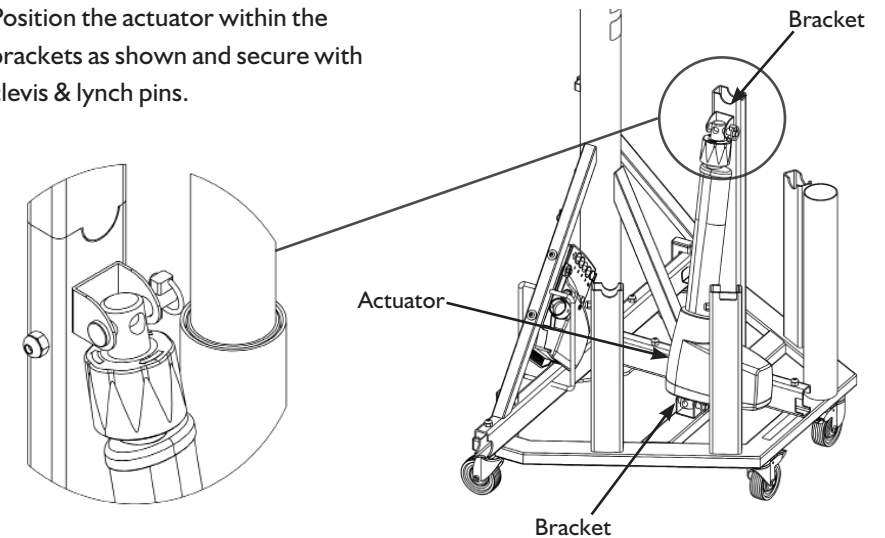


- Firstly, position the base assembly onto the transport stand in the orientation shown. Remember to secure the hand wheel to fully secure the base assembly.

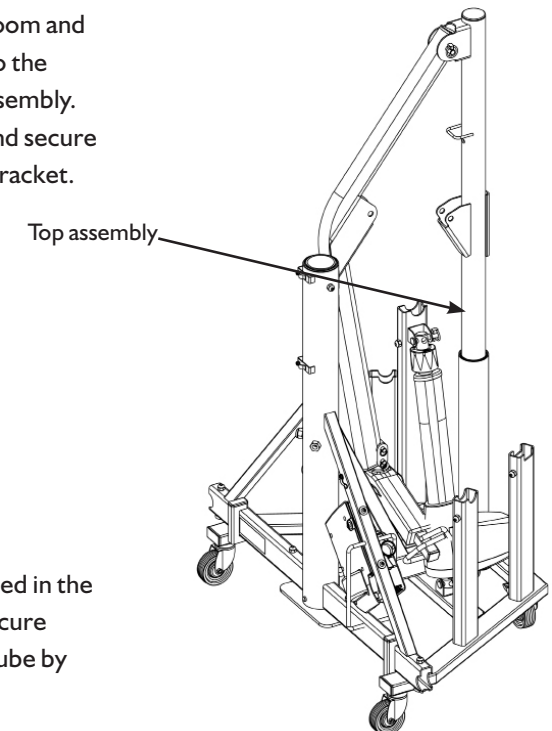


6. HOIST DISASSEMBLY AND PREPARING FOR STORAGE

- Position the actuator within the brackets as shown and secure with clevis & lynch pins.

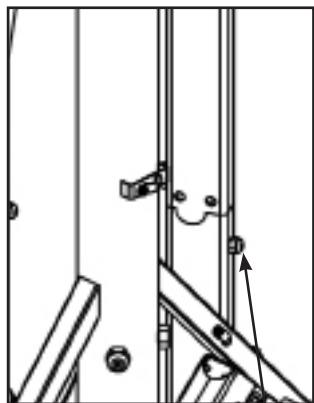


- Insert the top assembly, boom and spreader bar assembly into the middle tube of the base assembly. Locate the spreader bar and secure onto the transport stand bracket.



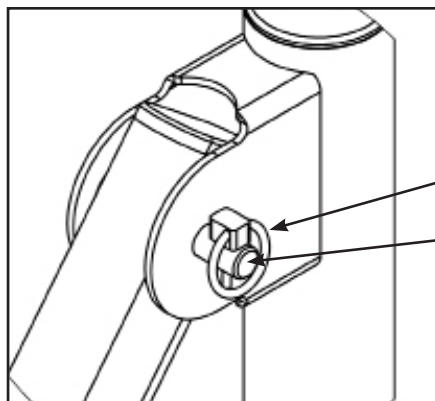
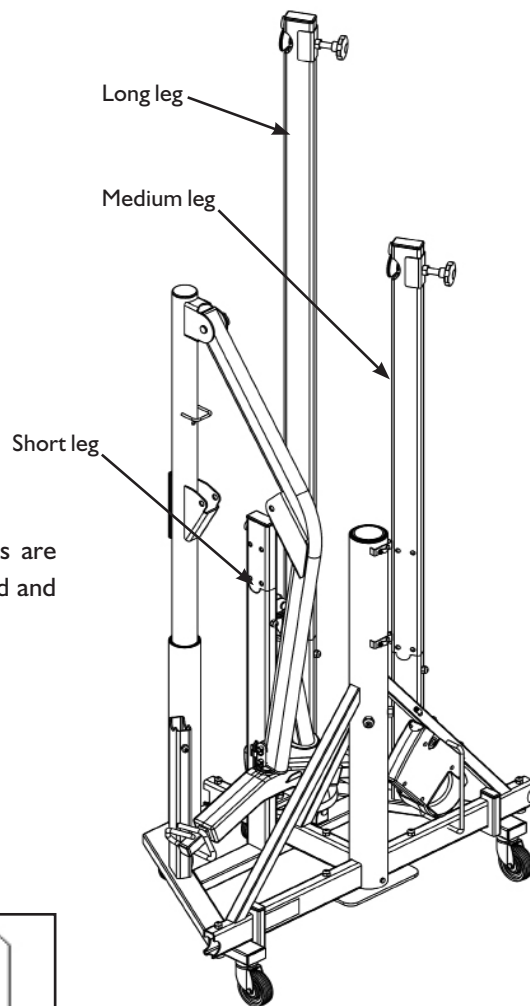
- Ensure all legs are positioned in the correct location tubes. Secure legs into their respective tube by tightening the leg bolt.

6. HOIST DISASSEMBLY AND PREPARING FOR STORAGE



Typical leg bolt to secure into tube

- Ensure all clevis and lynch pins are fully secured to the transport stand and all parts are stable.



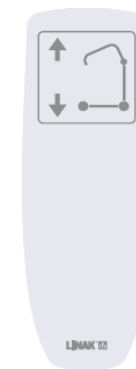
Lynch pin

Clevis pin

7. OPERATING THE HOIST

7.1 Electrical System

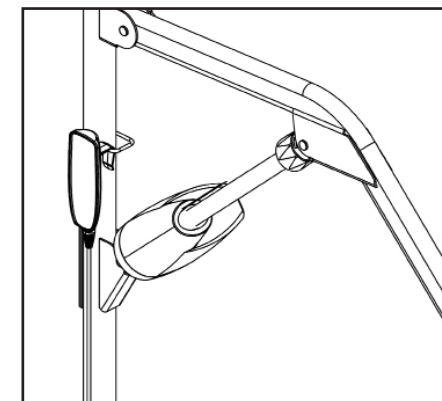
The hoist has an electrical adjustable boom height with a backup manual lowering device to aid patient transfer. The system is controlled via a touch button handset.



7.2 Variable Height Adjustment

Before operating the handset always advise a patient of the action due to commence.

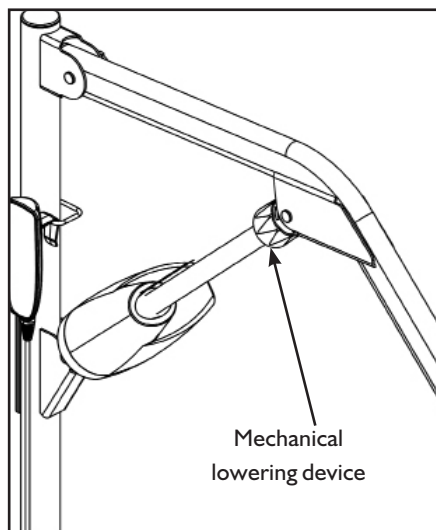
- To raise the hoist, depress the up arrow on the handset to the desired height.
- To lower the hoist, depress the down arrow on the handset to the desired height.
- The hoist automatically stops when the maximum or minimum heights are achieved.
- The control box is pre-installed with software to cut-out the actuator should the hoist be over loaded above 24 stone (152Kg) safe working load (SWL).
- Ensure the handset is located on the handset holder when not in use.



7. OPERATING THE HOIST

7.3 Emergency Lowering Device

- In case of power failure, the actuator incorporates a mechanical lowering device to lower a patient suspended in the hoist.
- To operate, twist the manual device in a clockwise direction to lower the hoist.
- Always ensure a patient is aware when lowering the hoist manually.



7.4 Hoist Lifting Safety Limit

- The control box on the Sidhil Electric Hoist contains an electronic current limiter. This will ensure the hoist will only ever lift the maximum 24 Stone (152kg) load.
- The current limiter will be triggered when the hoist has been loaded above and beyond 24 Stone (152kg). When overloaded, the hoist will have a stop start motion within the final third of the lifting range with the up button depressed on the handset.
- Should this occur lower the hoist immediately.

8. CLEANING PROCEDURES

8.1 Infection Control



Your hoist comes with an antibacterial additive incorporated into the powder coated metalwork. Biocote® inhibits the growth of bacteria on the surface of the hoist frame. It is effective against a wide range of both gram positive and negative bacteria as well as fungi. Examples of bacteria that Biocote® is resistant to include:

- Bacillus Subtilis
- Staphylococcus Aureus (MRSA)
- Escherichia Coli 0157
- Streptococcus Faecalis
- Salmonella Enteritides
- Listeria Monocytogenes

Warning



Biocote® is an aid to keeping your hoist infection free but it does not substitute the need for the hoist to be cleaned at regular intervals.

Always disconnect the control box from the main power supply prior to cleaning.

8.2 Decontamination

Infection control and routine cleaning must be carried out in accordance with your local infection control policy or regulatory body.



Warning

Always disconnect the hoist from the main power supply prior to cleaning.

8. CLEANING PROCEDURES

These instructions apply to all accessories apart from soft products (e.g. slings).

- All surfaces to be wiped down with a disposable soft cloth moistened with a mild detergent and diluted in warm water (40°C).
- The hoist should be cleaned by starting with the cleanest parts of the frame and systematically moving to the dirtiest parts. Extra care should be taken around areas where excess dirt or dust may gather.
- The cloth should be changed during the cleaning process if it becomes soiled.
- Rinse down with clean water to remove detergent residue.
- Wipe surfaces down with 1,000 parts per million chlorine solution (0.1%).
- Dry off with a paper towel.
- Always ensure the cleaned parts are allowed to dry before attaching a sling.

Note: If any of the 3 stages stated above (detergent, rinse down & chlorine solution) are omitted or combined it will reduce the effectiveness of the clean.

In cases of blood spills or other bodily fluids it is recommended that a chlorine solution of 10,000 parts per million (1%) is used instead.

Note: The use of neat bleach or similar surface cleaners are not recommended as damage may be caused to the cleaned surfaces.

Alternatively, Sidhil recommend the use of Chlor-clean tablets. Follow the manufacturer's instructions for concentration guidelines and instructions for use.

Refer to the Sidhil infection control policy, copies are available from Sidhil Ltd. Contact details can be found on the back of this booklet.

8.3 Cleaning the Sling

Please review the user instructions supplied with the sling for cleaning guidelines.

9. MAINTENANCE & TROUBLESHOOTING

9.1 General Maintenance

Only authorised service personnel or Sidhil service engineers should carry out repairs or service activities. Failure to do so may result in the manufacturer's warranty becoming void.

The hoist must be serviced every six months, as a minimum and records of the inspections maintained and kept for review. Sidhil also recommends that the carer performs frequent visual and operational inspections. If there are any signs of damage or the hoist is not performing as it should, withdraw it from service until the hoist has been repaired and is fit for use again.



Warning

Always disconnect the hoist from the main power supply prior to performing any maintenance procedures.

Periodically:

- Check for any signs of tearing, split seams or other forms of damage to the sling.
- Check that the spreader bar rotates freely without excessive play.
- Check that the frame is mechanically sound.
- Check that all nuts, bolts and fasteners are tight and that none are missing or incomplete.
- Check that all the clevis pivot pins are secure and retained with the appropriate lynch pins.
- Ensure the stabilising legs are fully secure.

Disposal of components must comply with local policy.

9. MAINTENANCE & TROUBLESHOOTING

9.2 Fault Finding

Listed below are a set of electrical faults that may occur within the service life of the hoist. If a fault does occur please try the following suggestions, as these may help in diagnosing the fault.



Warning

Do not use the hoist until the fault has been resolved.

Fault	Possible Cause	Remedy
Hoist does not raise or lower.	Mains lead not plugged into the mains supply.	Check that mains lead is plugged into the mains supply and the supply is switched on.
	Mains lead not plugged into the control box or is only partially plugged in.	Check that mains lead is fully located into the control box.
	Fuse has blown in the mains plug.	Check the power light is illuminated on the control box and replace the 5A fuse if necessary.
	Actuator or handset leads are unplugged or only partially plugged in.	Check that both leads are fully plugged into the control box.
	Actuator has reached its maximum or minimum stroke.	Depress each button on the handset to assess hoist movement. Should the hoist be at its highest position, lower using the emergency lowering nut on the actuator and contact your supplier.
	Damage to mains cable, actuator cable or handset cable.	Turn off at the mains and contact your supplier.
	Damage to actuator.	
	The hoist fails mid operation.	The duty cycle of the hoist is being exceeded. Ensure that the maximum SWL has not been exceeded. Lower the hoist using the lowering nut or the handset and allow the control box to cool down.
Maximum load exceeded.	The patient is above the 24 Stone (152kg) SWL.	Lower patient fully using the emergency lowering nut or the handset and do not exceed the SWL.

10. SPECIFICATION

10.1 Hoist Data

Overall width (single configuration)	2022mm
Overall width (double configuration)	2834mm
Overall length	1974mm
Spreader bar (highest position from floor)	1822mm
Spreader bar (lowest position from floor)	1083mm
Overall height (floor to top of boom)	2048mm
Central column height	1665mm
Central column height (to remove during assembly)	2100mm
Safe working load (user weight)	152kg (24 stone)
Product weight:	
Hoist on transport stand	62 kg
Hoist	50 kg

I0. SPECIFICATION

I0.2 General Electrical Data

General voltage in	230V AC \pm 10%, 50Hz
Safety standards EMC	BS EN 60601-1-2:2006 (Medical Electrical System)

Electrical shock protection 

Liquid ingress protection IP54

The electrical system is only suitable for use when:

Ambient temperature	+5° to +40°C
Humidity	20% - 90% at 30°C

I0.3 Electrical Product Specific Data

Product: LA44 LINAK Actuator

Article no: 442205+5L2000A0
Thrust: 12000N
Speed: 10.4/6.0 mm/s
Stroke length: 200mm
Installation length: 548mm
Motor: 24V DC standard
Protection class: IPX4
Colour: Grey

Product: Mains Cable

Article no: 912049 (CONTROL/032)
Cable length: 3.2 Mtr
Extra feature: Locking O Ring
Colour: Black PVC

Product: LA44 LINAK Actuator Cable

Article no: 0964424-0500
Cable length: 500mm straight
Colour: Grey

Product: CB6S LINAK Control Box

Article no: CB6217-00
Mains voltage: 230V AC
Output voltage: 24V DC
No. of channels: 2
Duty cycle: 10% (or 6 min./hour)
Current cut-off: Special S/W
Protection class: IPX4
Colour: Grey

Product: HB80 LINAK Handset

Article no: HB8X072-00
No. of channels: 1
Cable length: 600mm Coiled
Protection class: IPX4
Colour: Grey PU

I I. OPTIONAL ACCESSORIES

HST09/S	Universal Sling (Small)
HST09/M	Universal Sling (Medium)
HST09/L	Universal Sling (Large)
HST09/XL	Universal Sling (X- Large)
HST10/S	Commode Sling (Small)
HST10/M	Commode Sling (Medium)
HST10/L	Commode Sling (Large)
HST10/XL	Commode Sling (X- Large)
HST11/S	Head Support for Universal Sling (Small)
HST11/M	Head Support for Universal Sling (Medium)
HST11/L	Head Support for Universal Sling (Large)

12. WARRANTY

Sidhil Ltd guarantees this product is free from defects in material and workmanship under normal use for 3 years (1 year parts and labour, 2 further years for parts only) from the date of purchase from Sidhil Ltd and its subsidiary companies or its authorised dealers. All implied warranties, including but not limited to those implied warranties of fitness and merchantability, are limited in the total duration of three years from date of purchase. Proof of purchase must be presented with any claim. Except as provided herein, Sidhil Ltd, product warranty does not cover damage caused by misuse or abuse, accident, the attachment of any unauthorised accessory, alteration to the product, or any other conditions whatsoever that are beyond the control of Sidhil Ltd. Sidhil Ltd and its subsidiary companies shall have no liability or responsibility to the customer or any other person or entity with respect to any liability, loss or damage caused direct or indirectly by use or performance of the product or arising out of any breach of this warranty, including but not limited to any damages resulting from inconvenience, loss of time, property, revenue, or profit or any indirect, special, incidental or consequential damages, even if Sidhil Ltd or their subsidiary companies or authorised dealers has been advised of the possibility of such damages.

In the event of a product defect during the warranty period you should contact Sidhil Ltd or their authorised dealer who will at its option unless otherwise provided by law; a) correct the defect by product repair without charge for parts and labour b) replace the product with one of the same or similar design or c) refund the purchase price. All replaced parts and products on which refund is made become the property of Sidhil Ltd. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover; a) damage or failure by or attributes to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alterations, lightning or other incidence of excess voltage or current, b) any repairs other than those provided by a Sidhil Ltd authorised technician, c) consumables such as fuses, d) cosmetic damage, e) transportation, shipping or insurance costs or f) costs of product removal, installation setup service adjustment or re-installation.

This limited 1 year warranty gives you specific legal rights and you may also have other rights.

Sidhil Ltd cannot be held responsible for any injury or incident which relates to the use of this hoist in conjunction with accessories manufactured by companies other than Sidhil Ltd.

All products carry the CE mark in accordance with EC Directive on Medical Devices (93/42/EEC).

Sidhil has a policy of continual product improvement and reserves the right to amend specifications covered in this brochure.

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